



117606

CONFIDENTIAL-NOT FOR PUBLIC RELEASE

Adco Chemical Co.

02-8904-14

Rev. No. 0

0-HRSSu

☐ -PRO Sco

HRS

	s	s ²
Groundwater Route Score (S _{gw})	2.07	4.28
Surface Water Route Score (S _{sw})	0.00	0.00
Air Route Score (S _a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		4.28
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		2.07
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		1.20

WORKSHEET FOR COMPUTING S_M

PRO

	s	s ²
Groundwater Route Score (S _{gw})	2.83	8.01
Surface Water Route Score (S _{sw})	6.04	36.48
Air Route Score (S _a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		44.49
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		6.67
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		3.86

DECLASSIFIED

WORKSHEET FOR COMPUTING S_M

Date: 4/10/19 Initial: jh

Adco Chemical Co.
02-8904-14
Rev. No. 0
0-HRS Sure
-PRO Score

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Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO	
1 Observed Release	0 45	1	0	45	45	
If observed release is given a score of 45, proceed to line 4 . If observed release is given a score of 0, proceed to line 2 .						
2 Route Characteristics						
Depth to Aquifer of Concern	0 1 2 3	2	6	6	6	
Net Precipitation	0 1 2 3	1	2	3	2	
Permeability of the Unsaturated Zone	0 1 2 3	1	1	3	2	
Physical State	0 1 2 3	1	3	3	3	
Total Route Characteristics Score			12	15	13	
3 Containment	0 1 2 3	1	3	3	3	
4 Waste Characteristics						
Toxicity/Persistence	0 3 6 9 12 15 18	1	9	18	9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	2	8	3	
Total Waste Characteristics Score			11	26	12	
5 Targets						
Ground Water Use	0 1 2 3	3	3	9	3	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	0	
Total Targets Score			3	49	3	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			1188	57,330	1620	
7 Divide line 6 by 57,330 and multiply by 100			S _{gw} = 2.07 2.83			

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Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	HRS	Max. Score	PRO	
1 Observed Release	<u>0</u> 45	1		45	<u>0</u>	
If observed release is given a value of 45, proceed to line 4 .						
If observed release is given a value of 0, proceed to line 2 .						
2 Route Characteristics						
Facility Slope and Intervening Terrain	<u>0</u> 1 2 3	1		3	<u>0</u>	
1-yr. 24-hr. Rainfall	0 1 <u>2</u> 3	1		3	<u>2</u>	
Distance to Nearest Surface Water	0 1 <u>2</u> 3	2		6	<u>4</u>	
Physical State	0 1 2 <u>3</u>	1		3	<u>3</u>	
Total Route Characteristics Score				15	<u>9</u>	
3 Containment	0 1 2 <u>3</u>	1		3	<u>3</u>	
4 Waste Characteristics						
Toxicity/Persistence	0 3 6 <u>9</u> 12 15 18	1		18	<u>9</u>	
Hazardous Waste Quantity	0 1 2 <u>3</u> 4 5 6 7 8	1		8	<u>3</u>	
Total Waste Characteristics Score				26	<u>12</u>	
5 Targets						
Surface Water Use	0 1 <u>2</u> 3	3		9	<u>6</u>	
Distance to a Sensitive Environment	0 1 2 <u>3</u>	2		6	<u>6</u>	
Population Served/Distance to Water Intake Downstream	<u>0</u> 4 6 8 10 12 16 18 20 24 24 30 32 35 40	1		40	<u>0</u>	
Total Targets Score				55	<u>12</u>	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				64,350	<u>3888</u>	
7 Divide line 6 by 64,350 and multiply by 100				$S_{SW} = 0.00$	<u>6.04</u>	

The surface water migration route was scored zero for the HRS, as there is no overland migration route from the site to surface water.